Fraden

[45] May 22, 1984

[54]	MOTION DISCONTINUANCE DETECTION SYSTEM AND METHOD			
[75]	Inventor	Josep Freder Hamden Com		

[75] Inventor: Jacob Fraden, Hamden, Conn.

[73] Assignee: Bio/Optical Sensor Partners, Ltd.,

Oberlin, Ohio

[21] Appl. No.: 469,467

[22] Filed: Feb. 24, 1983

Related U.S. Application Data

[63] Continuation of Ser	. No. 249,068, N	far. 30, 1981.
--------------------------	------------------	----------------

[56] References Cited

U.S. PATENT DOCUMENTS

2,016,036	10/1935	Fitzgerald .
3,459,961	8/1969	Ravas 362/276 X
4,305,021	12/1981	Schreiden 315/159

Primary Examiner—David C. Nelms
Assistant Examiner—Edward P. Westin
Attorney, Agent, or Firm—Pearne, Gordon, Sessions,
McCoy, Granger & Tilberry

[57] ABSTRACT

A motion detection system is disclosed which utilizes a lens or other imaging device to be responsive to motion in a particular field of view in a room, for example, and pass illumination to a photocell. The photocell or a screen in front thereof establishes image distortion so that there is a nonuniform electrical output from the photocell upon motion of objects in the given field of view. The nonuniform electrical output establishes pulses which are passed to a timer and continually resets the timer so long as there is motion detected. Upon discontinuance of any motion in the field of view, no further pulses are passed to reset the timer, and the timer times out to de-energize an electrical load. This may be an electrical lamp illuminating the field of view, or it may be an electric soldering iron or typewriter which is de-energized when the person has left the room.

23 Claims, 9 Drawing Figures

